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Invertebrates; *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; Drosophila; Animal; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

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Kallmann syndrome; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

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Lateral line primordium; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

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Lateral plate mesoderm; Chick embryo; TGFβ; *lefty1*; *antivin*; Left-right asymmetry; Notochord; Prospective floorplate **90** 115

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lefty1; Chick embryo; TGFβ; *antivin*; Left-right asymmetry; Notochord; Prospective floorplate; Lateral plate mesoderm **90** 115

Limb bud; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

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Limb development; T-box; *Tbx5*; Holt–Oram syndrome; Lateral plate mesoderm; Heart; Pectoral fin; Apical fold; Retina; Zebrafish **90** 299

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Meiosis; Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; XY bivalent **90** 95

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Neural fold; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

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Olfactory system; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

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Short gastrulation; Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Bone morphogenic protein; Transforming growth factor-β; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

siamois; Spemann's organizer; *Xvex-1*; *BMP-4*; *Xvent*; *gsc*; Competence; Target genes; *Xenopus* **90** 77

Sik; rRNA processing; Muscle; Mesoderm; Nop; Nucleolus; Midgut **90** 305

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Skeletal muscle; Congenital heart disease; Down syndrome; Chromosome 21; SH3BGR gene; Mouse embryogenesis; Heart; Smooth muscle; Northern blot; In situ hybridization **90** 313

Smooth muscle; Congenital heart disease; Down syndrome; Chromosome 21; SH3BGR gene; Mouse embryogenesis; Heart; Skeletal muscle; Northern blot; In situ hybridization **90** 313

Somite; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Telencephalon **90** 103

Somites; Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

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Spastic Paraplegia Type 4; Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor-β; Holoprosencephaly 2; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

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